

Title (en)  
INDUCTION HEATED ROLL APPARATUS

Title (de)  
INDUKTIONSERWÄRMTE WALZENVORRICHTUNG

Title (fr)  
APPAREIL DE ROULEAU CHAUFFÉ PAR INDUCTION

Publication  
**EP 3361829 B1 20190731 (EN)**

Application  
**EP 18156112 A 20180209**

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Abstract (en)  
[origin: EP3361829A1] The present invention uniformly cools a roll body and/or an induction heating mechanism by gas without complicating the configuration around the roll body. An induction heated roll apparatus includes a roll body having a hollow part, an induction heating mechanism disposed in the hollow part to subject the roll body to induction heating, and a cooling mechanism to cool the roll body and/or the induction heating mechanism by generating a gas flow in a clearance between the roll body and the induction heating mechanism. The cooling mechanism includes a suction port disposed on one axial end side of the roll body that communicates with the clearance, an exhaust port disposed on an opposite axial end side of the roll body that communicates with the clearance, and a suction mechanism coupled to the exhaust port that sucks the gas in the clearance from the exhaust port.

IPC 8 full level  
**H05B 6/14** (2006.01)

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**H05B 6/145** (2013.01 - CN EP KR US); **H05B 6/42** (2013.01 - CN KR); **B21B 2027/086** (2013.01 - US)

Cited by  
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